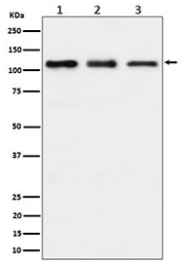
TAOK1 Antibody / Thousand and one amino acid protein kinase 1 [clone 30T29] (FY12451)

Catalog No.	Formulation	Size
FY12451	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30T29
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q7L7X3
Applications	Western Blot : 1:500-1:2000
Limitations	This TAOK1 antibody is available for research use only.



Western blot analysis of TAOK1 expression in (1) human HeLa cell lysate; (2) mouse RAW264.7 cell lysate; (3) rat C6 cell lysate. Predicted molecular weight ~116 kDa.

Description

TAOK1 antibody detects thousand and one amino acid protein kinase 1, a serine threonine kinase encoded by the TAOK1 gene. TAOK1 belongs to the MAP kinase kinase kinase family and regulates diverse cellular processes including cytoskeletal organization, stress signaling, and apoptosis. Through phosphorylation of downstream MAP kinases, TAOK1 influences cell cycle progression and response to environmental stress.

TAOK1 antibody is widely used in studies of kinase signaling, neuronal development, and cancer biology. In neurons, TAOK1 has been linked to axon outgrowth, dendritic branching, and synaptic plasticity. Mutations and altered expression of TAOK1 have been implicated in neurodevelopmental disorders including autism spectrum disorder. By detecting TAOK1, researchers can evaluate how changes in kinase signaling contribute to brain development and function.

The antibody is suitable for western blotting, immunohistochemistry, and immunofluorescence. Western blot assays detect bands corresponding to TAOK1 isoforms across different tissues. Immunohistochemistry highlights expression in developing brain regions, while immunofluorescence provides subcellular localization at cytoskeletal structures and kinases in signaling complexes.

TAOK1 also regulates apoptotic pathways through activation of stress activated protein kinases. It contributes to programmed cell death under stress conditions, linking it to cancer and degenerative disease. Elevated TAOK1 expression has been reported in tumors, where it may affect proliferation and survival pathways. By applying TAOK1 antibody, scientists can study its role in balancing survival and death signals in health and disease.

TAOK1 antibody from NSJ Bioreagents offers dependable specificity for analyzing MAP kinase signaling, neuronal development, and oncogenesis. Its performance across applications makes it a valuable reagent for laboratories studying cellular stress responses and growth regulation.

Application Notes

Optimal dilution of the TAOK1 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human TAOK1 was used as the immunogen for the TAOK1 antibody.

Storage

Store the TAOK1 antibody at -20oC.

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